

MANUFACTURING EXTENSION PARTNERSHIP

Success Stories from the Field

Henry Molded Products

MANTEC

Henry Molded Products, Inc. Reduces Energy Costs by 20 Per Cent.

Client Profile:

Henry Molded Products, Inc. (HMP) has been providing protective packaging to their customers in the automotive, pharmaceutical, electronic, wine and machinery industries with high quality sustainable based molded fiber products for 46 years. the company employs 83 people at its facility in Lebanon, Pennsylvania.

Situation:

HMP experienced intensive energy usage patterns in the manufacturing portion of their process. With the rising costs of energy and pressure on unit profitability, HMP implemented innovative efficiency techniques in process heating and engineering. The company addressed their energy expenditures, in order to remain competitive while expanding their markets. MANTEC, a NIST MEP network affiliate, provided a heat reclamation consultant to achieve these energy savings.

Solution:

The objective of the energy reduction engineering initiative was to recapture lost process heat and reduce energy costs through efficiency gains. This was an engineered solution performed through MANTEC. The original system allowed waste exhaust heat to escape into the environment. The engineered solution consisted of recapturing the exhaust heat into a pre dryer zone and effectively reducing Btu's/lb (British Thermal Unit) of water needed to dry the product. This heat reclamation project allowed for the recapture of waste heat while reducing emissions. Improved energy usage and increased efficiencies allowed HMP to produce green and sustainable products in the most environmentally responsible manner. As a result of these gains, energy costs were reduced by as much as 20 percent and captured dramatically more capacity allowing the company to become more competitive.

Results:

- * Reduced costs by 20 percent.
- * Achieved a more competitive and profitable position.

Testimonial:

"The energy reduction initiative performed with MANTEC was critical to reducing our energy usage. We continue to implement sustainable practices allowing us to remain an industry leader."

Douglass Henry, President